

**NWS FORM E-5**

(11-88)

(PRES. by NWS Instruction 10-924)

**U.S. DEPARTMENT OF COMMERCE****NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION****NATIONAL WEATHER SERVICE****HYDROLOGIC SERVICE AREA (HSA)****WFO Jackson, Mississippi****MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:

MONTH

YEAR

**November****2014**

SIGNATURE

TO: Hydrometeorological Information Center, W/OH2  
NOAA / National Weather Service  
1325 East West Highway, Room 7230  
Silver Spring, MD 20910-3283

DATE

12/19/2014

*When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)*

☒ An X inside this box indicates that no river flooding occurred within this hydrologic service area.

**Synopsis...**

For November, the average temperature for the Jackson Hydrologic Service Area (HSA) was very much below normal for the month. All ASOS sites were near or greater than 5 degrees below normal. Meridian, Greenville, Greenwood, and Vicksburg all ranked with the second coolest Novembers at their respective locations while Jackson and Hattiesburg ranked with their third coolest Novembers. As for precipitation, every location was below normal as well. For the fall season (September-October-November), all ASOS locations recorded normal or slightly below normal temperatures, and all locations recorded at least two inches of rainfall below normal as well.

November, altogether, was a relatively dry month this year and so it started out as such with high pressure dominating the overhead weather pattern. On the 6<sup>th</sup>, a cold front passed through which brought a bit of rain to the Louisiana parishes and Arkansas counties as well as the Mississippi Delta counties but left the majority of the HSA dry.

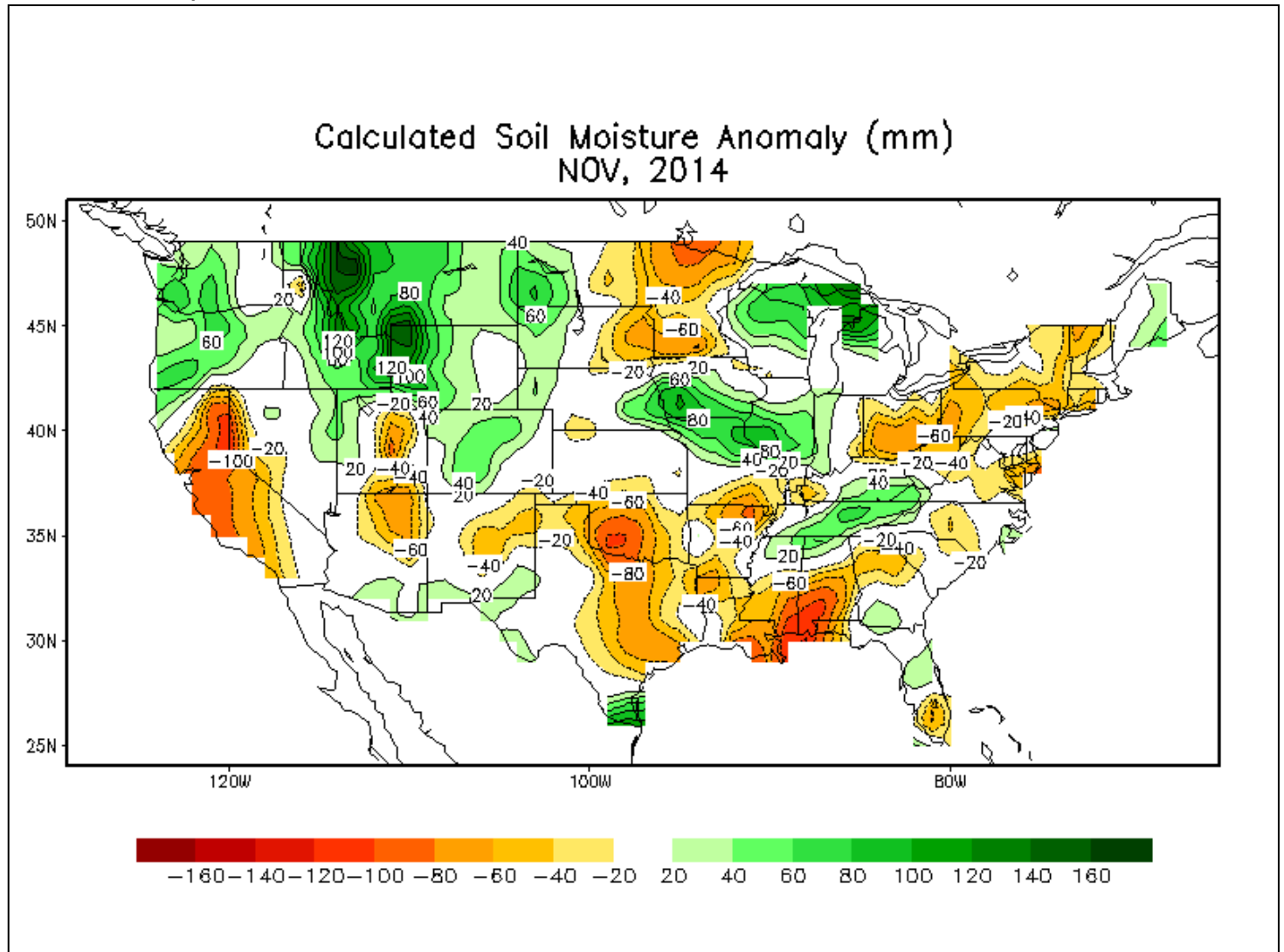
Another cold front passed through on the 12<sup>th</sup> and ushered in mainly unseasonably cold air. Some sprinkles did fall, though primarily along the Natchez Trace corridor. The cold weather remained as high pressure trailed the frontal passage. On the 16<sup>th</sup>, a low pressure system formed along the western Gulf Coast, and as it progressed northward it ended up causing some minor severe weather in southern Mississippi on the 17<sup>th</sup> as well one tornado in Jones County, MS. This system also brought some welcome rainfall to the area with the whole HSA receiving between 1 to 3 inches of precipitation.

Quiet weather followed the first and only good rain of the month. On the 24<sup>th</sup>, another cold front pushed through and brought widely scattered thunderstorms to the HSA. This system only dropped a widespread quarter of an inch, with a few lucky locations receiving up to a half inch of precipitation.

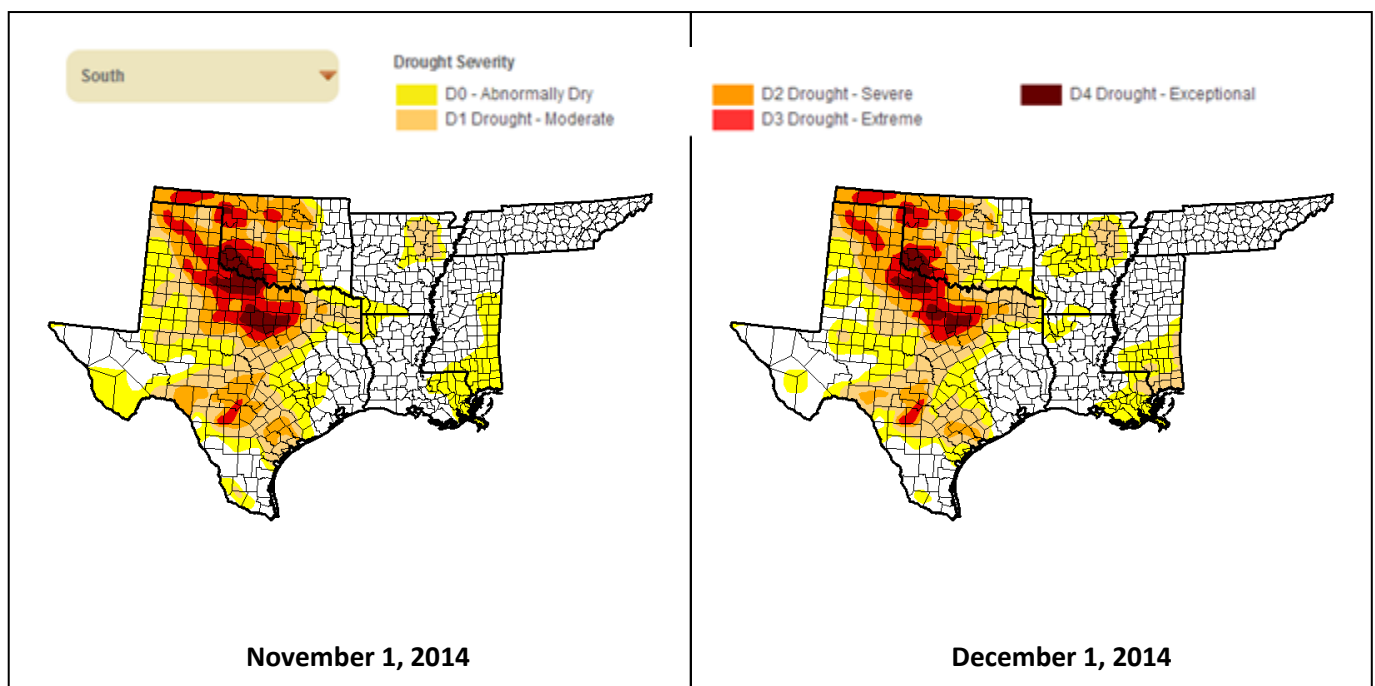
The rest of the month saw dry weather with warming, mild temperatures.

## River and Soil Conditions...

### Soil Moisture Map:



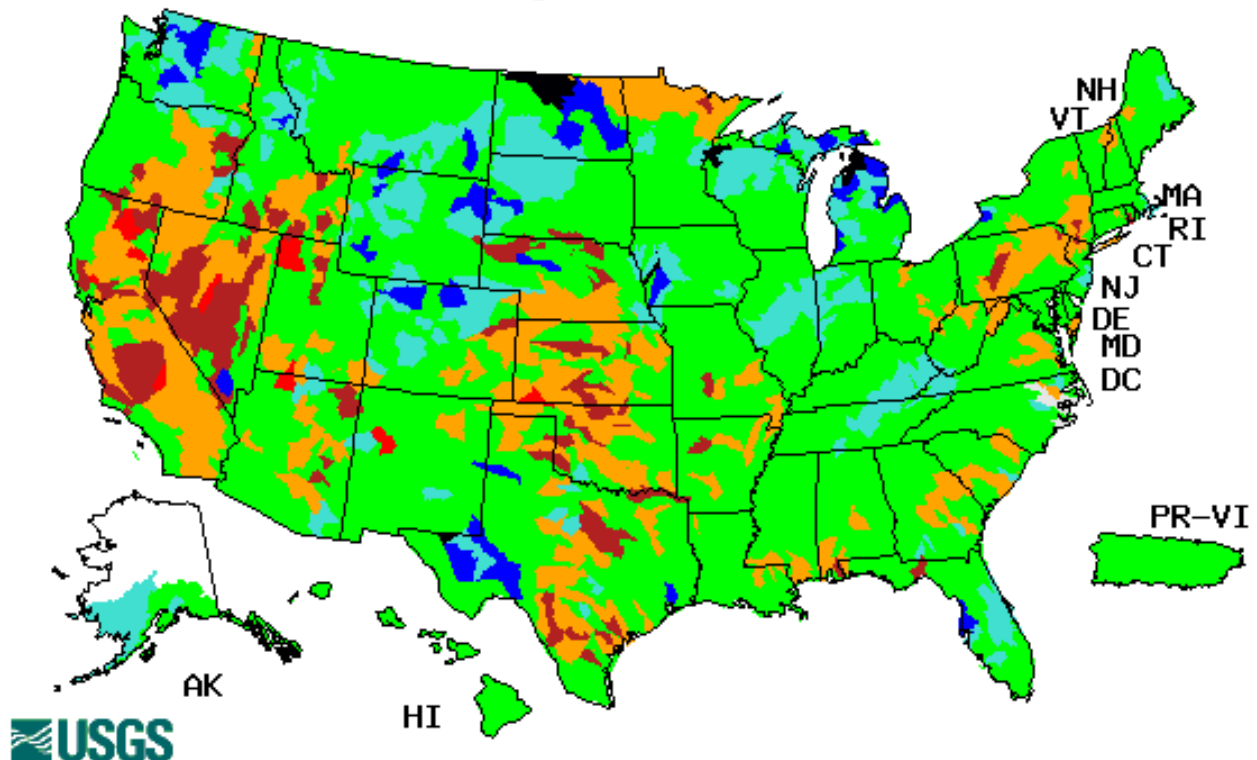
### Drought Comparison:



### Streamflow:

The United States Geological Survey's (USGS) November 2014 river streamflow records were compared with all historical November streamflow records. The average November streamflow was normal throughout the HSA.

Monday, December 01, 2014



Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

### River Conditions:

No flooding occurred along the river systems in the HSA. For the conditions of the Mississippi River from Arkansas City to Natchez, refer to the hydrographs on the next page.

### Climatic Outlook and Flood Potential:

The climatic outlook predicts below normal temperatures over the next three months for the entire HSA. In regards to precipitation, the outlook shows equal chances for above normal, below normal or normal rainfall. Thus, based on current soil moisture, streamflow, and the 3-month weather outlook, the flood potentials are as follows:

Pearl River System: Average.

Yazoo River System: Average.

Big Black River System: Average.

Homochitto River System: Average.

Pascagoula River System: Average.

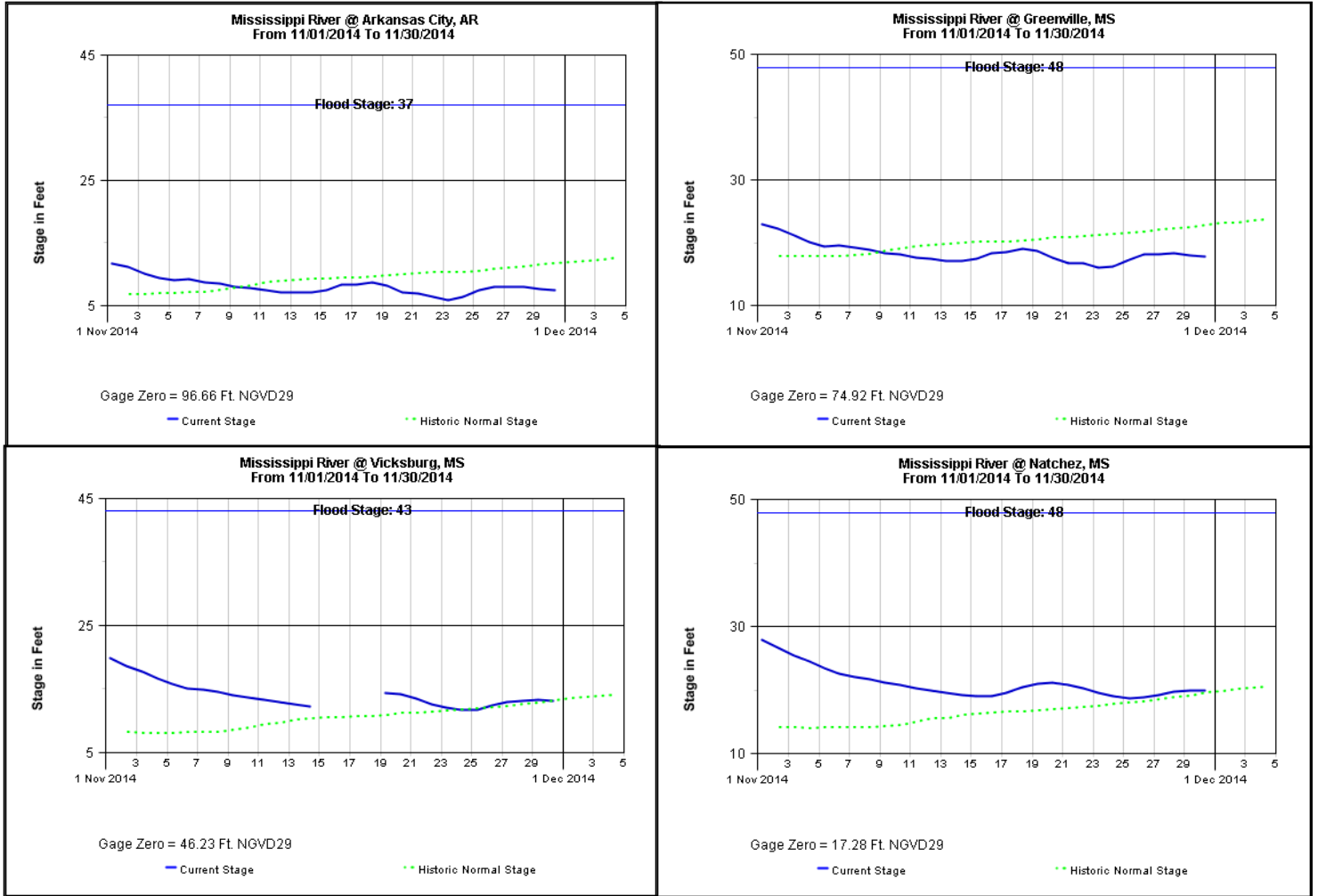
Northeast LA and Southeast AR: Average.

Tombigbee River System: Average.

Mississippi River: Average.

# Mississippi River Plots November 2014

## Plots Courtesy of the United States Army Corps of Engineers



### Monthly Preliminary High and Low Stages:

Location	Flood Stage (ft)	High Stage (ft)	Date	Low Stage (ft)	Date
Arkansas City	37	11.70	11/01	5.89	11/23
Greenville	48	22.98	11/01	16.18	11/23
Vicksburg	43	19.85	11/01	11.61	11/25
Natchez	48	27.93	11/01	18.78	11/25

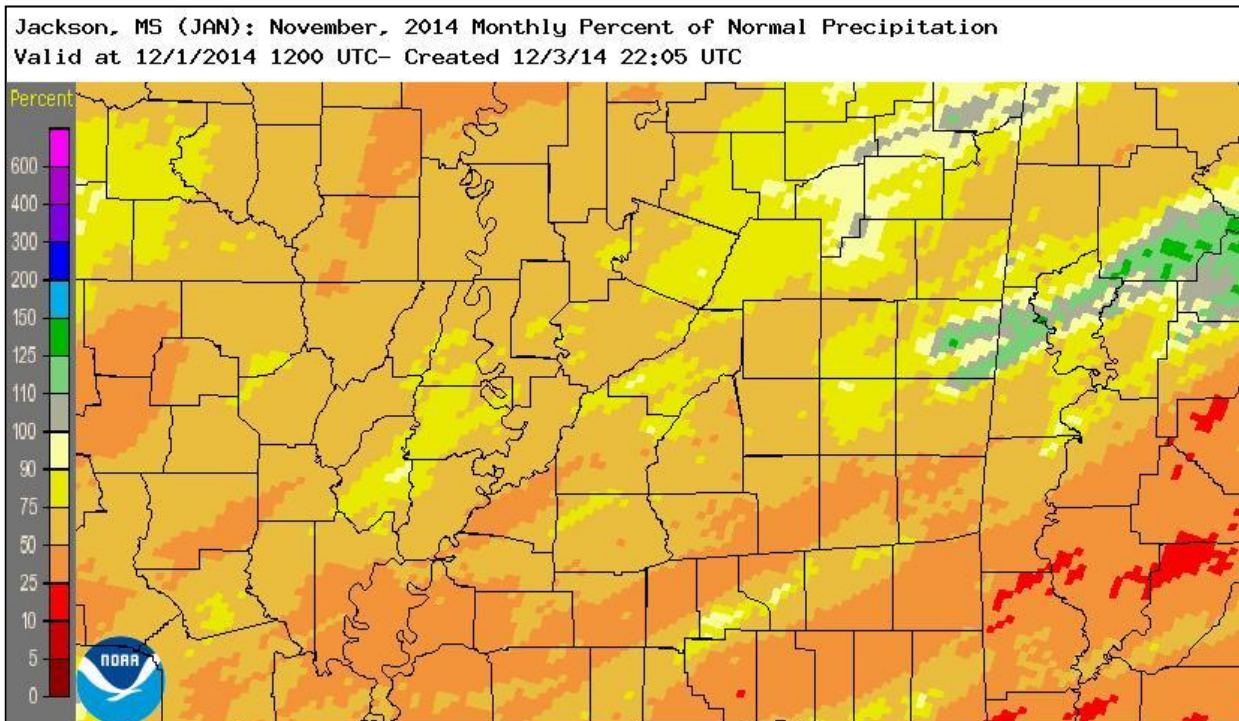
## Rainfall for the Month of November:

The largest rainfall amounts in the HSA from NWS Cooperative Observer reports during the period from 7 am on October 31st until 7 am on November 30<sup>th</sup> were:

4.90 inches at Canton, MS and Collins, MS; 4.84 inches at Winnsboro 2SE, LA; 4.66 inches at Tallulah, LA; 4.43 inches at Kosciusko, MS; 4.36 inches at Pat Harrison Waterway's Turkey Creek Water Park, MS and Starkville, MS; 4.35 inches at Crawford, MS; 4.24 inches at Goshen Springs, MS; 4.20 inches at Elliot, MS; 4.07 inches at Okatibbee Reservoir, MS; and 4.06 inches at Crandall, MS.

Some lesser rainfall amounts: 1.71 inches at Columbia, MS; 1.43 inches at Brookhaven, MS; 2.07 inches at Mize, MS; 2.23 inches at Sumrall, MS and Monticello, MS; 2.24 inches at Pat Harrison Waterway's Dry Creek Water Park, MS; 2.29 inches at Purvis, MS and Bay Springs, MS; 2.36 inches at Hattiesburg 5SW

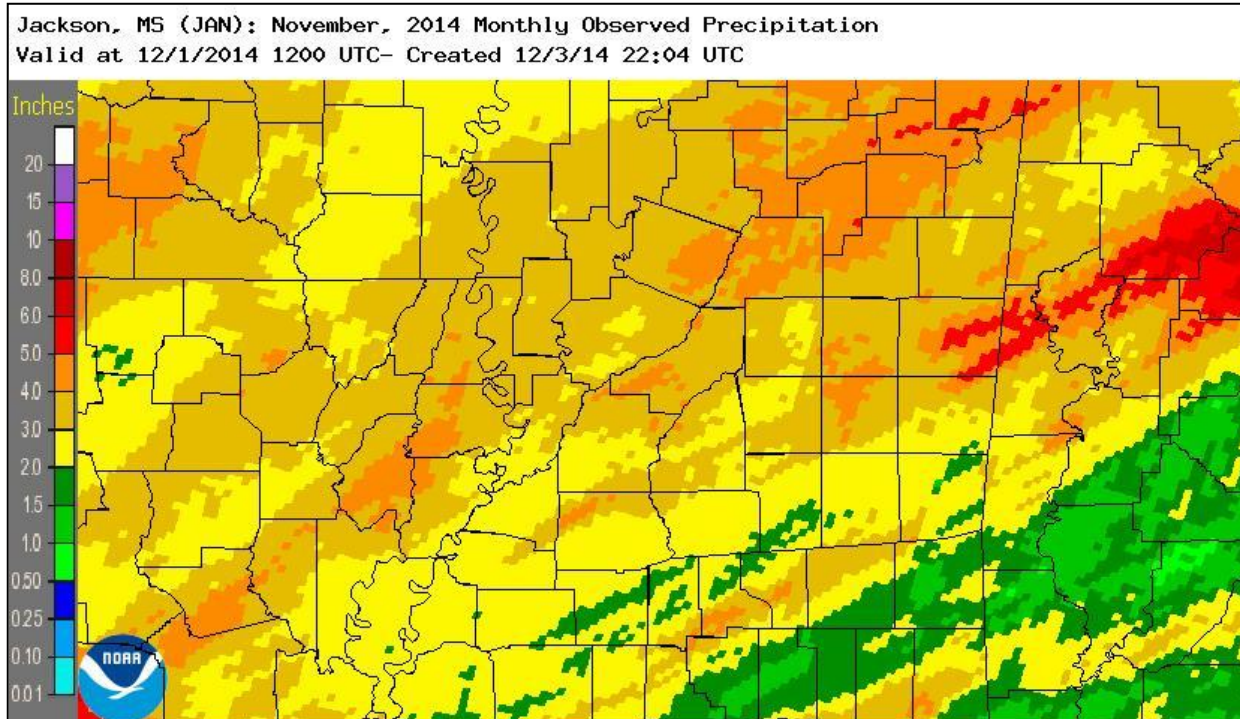
### November Rainfall Estimates:



Note: Observer rainfall and MPE may differ due to time differences.



## November Percent of Normal Precipitation:



Note: Observer rainfall and MPE may differ due to time differences.

## November Rainfall for Selected Cities:

City (Airport)	Rainfall	Departure from Normal	2014 Rainfall	2014 Departure from Normal
Jackson (KJAN)	3.88	-0.88	52.26	+3.27
Meridian (KMEI)	3.18	-1.77	45.52	-5.58
Greenville (KGLH)	2.39	-2.67	48.92	+1.90
Greenwood (KGWO)	3.06	-1.46	50.60	+4.48
Hattiesburg (KHBG)	1.68	-2.59	46.11	-8.15
Vicksburg (KTVR)	3.81	-1.19	53.91	+4.78

Total Flood Warning products issued: 0

Total Flood Statement products issued: 0

Total Flood Advisories MS River: 0

Daily Climate and Ag WX Products (AGO'S) issued: 30

Daily CoCoRaHS Rainfall Products (LCO'S) issued: 30

Daily River and Lake Summary Products (RVD'S) issued: 30

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&

Anna Weber

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Note: Provisional stage and precipitation data were furnished with the cooperation of the Mississippi, Louisiana, and Arkansas National Weather Service Cooperative Observer Programs, United States Geological Survey (USGS), United States Army Corps of Engineers (USACE), Pearl River Valley Water Supply District (PRVWSD), Pat Harrison Waterway District, Pearl River Basin Development District, and the Mississippi Department of Environmental Quality.

cc: USGS Little Rock District  
USGS Ruston District  
USACE Mobile District  
USACE Vicksburg District  
USACE Mississippi Valley Division  
USGS Mississippi District  
SRH Climate, Weather and Water Division  
Lower Mississippi River Forecast Center  
Pearl River Valley Water Supply District  
Hydrologic Information Center  
Southern Region Climate Center  
Pat Harrison Waterway District  
Pearl River Basin Development District